

X9.84 Revelation

- Biometric data cannot be kept confidential
 - faces can be photographed
 - voices can be recorded
 - fingerprints can be lifted
 - signatures can be copied







- Thus the security of an authentication system cannot rely on secrecy of biometric data
- Instead, must ensure the integrity and authenticity of the biometric data privacy is optional

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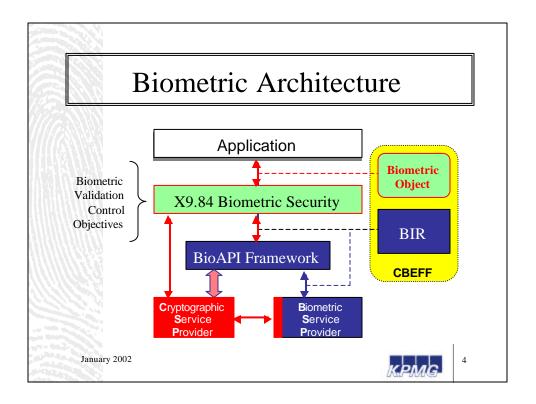
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X9.84 in a Nutshell

- Establishes a FRAMEWORK consisting of components
 Data Capture, Signal Processing, Matching, Storage, etc.
- Defines **REQUIREMENTS** for operating a biometric authentication system in a financial services environment
 - Enrollment, Verification, Identification and Storage
- Provides **TECHNIQUIES** satisfying the privacy, integrity and authenticity requirements for biometric data (ASN.1)
 - Harmonized w/ NISTR 6529 CBEFF & BioAPI Specification 1.0
- Offers comprehensive set of CONTROL OBJECTIVES
 - suitable for use by a professional audit practitioner to validate a biometric authentication system

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X9.84 History

- 1998 January X9 approved new work item
 - Per requests of financial institutions
 - Assigned to X9F4 working group (chair: Jeff Stapleton)
- 1999 Established liaison relationships
 - BioAPI, CBEFF, IBIA, TC68/SC2, INCITS B10
- 2000 Mid-year liaison pre-ballot review
- 2000 December X9.84 ballot completed
- 2001 March X9.84 published
 - Available www.x9.org Bookstore

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X9.84 – ISO Debacle

- 2001 June X9.84 submitted to TC68/SC2
 - X9 is US TAG to ISO TC68
 - ISO fast-track DIS 21352 (X9.84)
- 2001 September TC68/SC2 dissension
 - ISO/IEC JTC1/SC17 shadow groups
- 2001 October JTC1/SC17 presented X9.84
- 2001 December DIS defeated
 - Disliked ISO fast-track, want 5-stage development
 - Generic standard, belongs in JTC1/SC17

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X9.84 Current Events

- Fact: X9.94 is a US national standard on biometrics for use in the financial industry
- ISO TC68 has demonstrated that ISO is not interested in biometrics
- Others can use X9.84 just purchase a copy
 - Other US industries can refer to X9.84
 - Other countries can refer to X9.84
- Discussed X9.84 to new INCITS Technical Committee M1on biometrics

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X9.84 Conclusions

- Biometric pilots are (slowly) becoming production systems
- Safe and secure management of biometric information is critical success factor
- The time to establish biometric security policies, practices, and procedures is...

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